



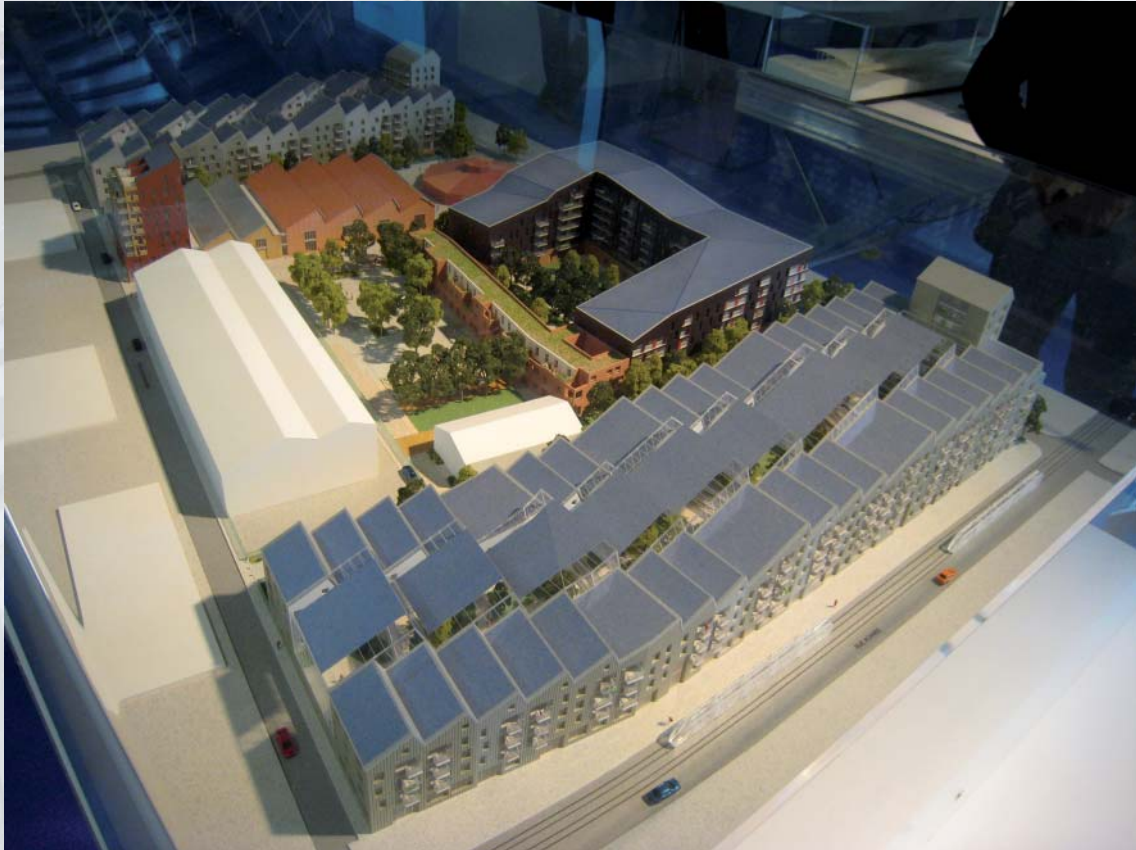
SITE INFORMATION

Nexity Domofrance - Bordeaux



Nexity Domofrance Bordeaux – an example for a modern building envelope

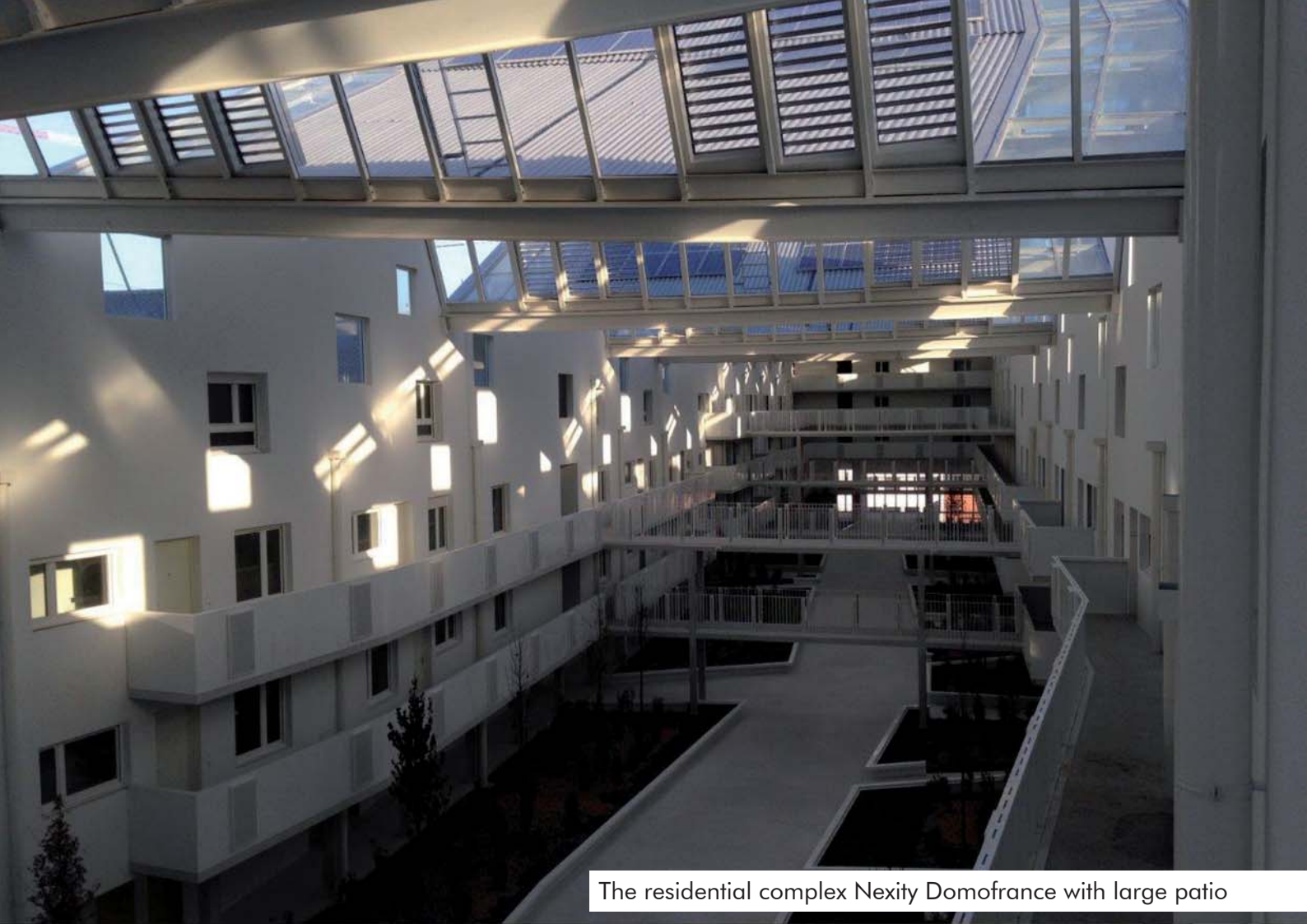
The residential complex Nexity Domofrance in Bordeaux consists of two building blocks of 149 apartment units each. The shed roof keeps the patio dry and offers protection against cold and wind. Together with the front of the housing complex, which is partly glazed, the shed roof provides sufficient sunlight to illuminate the patio from which the individual apartments are accessed.



A total of 119 SMOKEJET louvre ventilators were integrated into the shed roof in order to prevent closeness within the patio area during the summer. All devices were built to dimension. Their different sizes add up to a total exhaust area of $75,06 \text{ m}^2$ (Aa value). The slats are both opened and – if weather conditions are bad – closed electrically via 24 V actuators.

160 louvre windows fitted with frameless glass slats type GG LO BT50 provide for the required fresh air. These supply air slats are also opened by means of 24 V actuators. Adding up the area of all louvre windows, a total of $52,00 \text{ m}^2$ (Aa value) of supply air area is achieved.

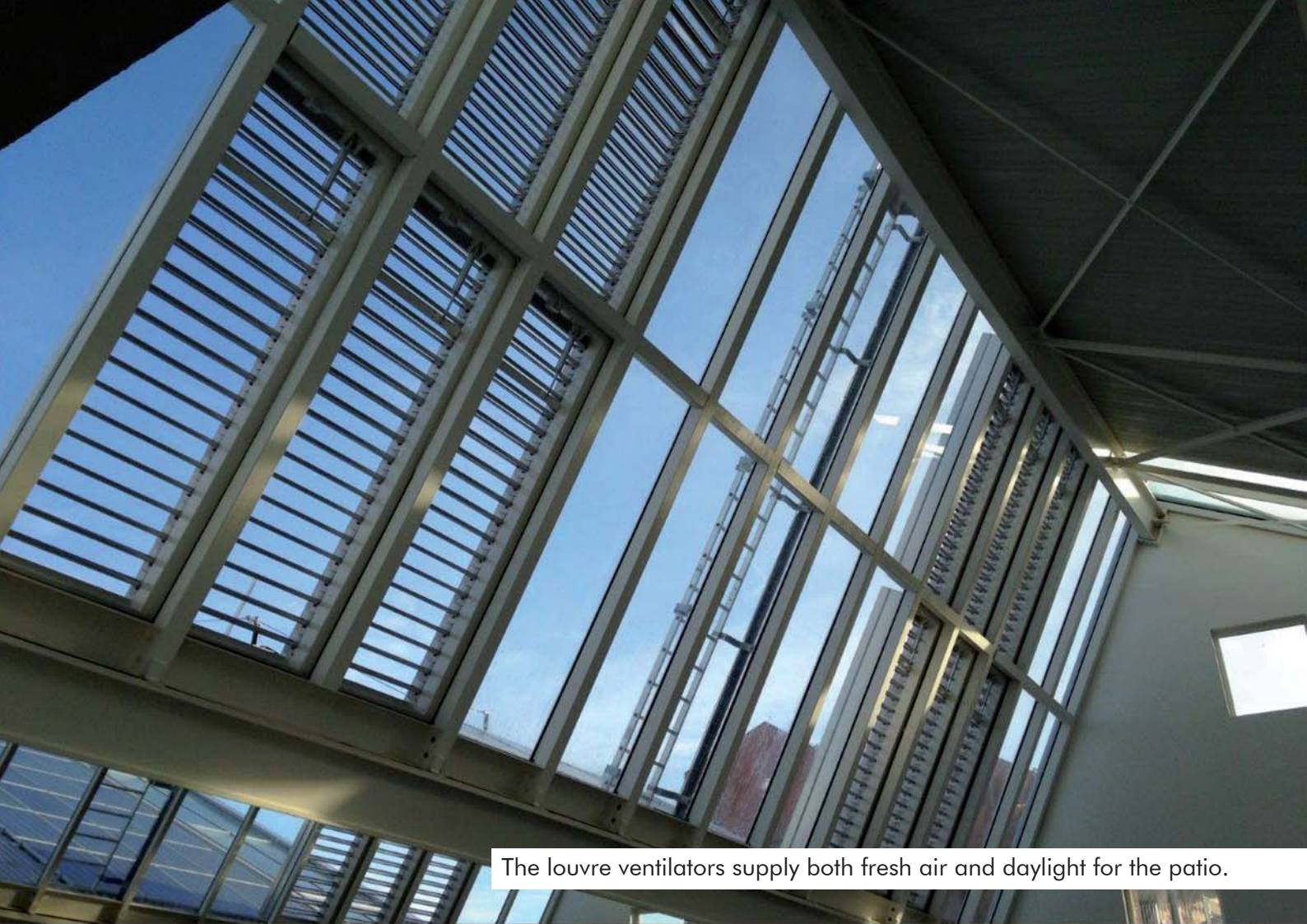
When the systems are open, the thermal lift of the warmer air enables sufficient circulation of the air to keep the patio pleasantly cool even in hotter summers. Temperature sensors control the systems and facilitate night cooling, whilst CO_2 sensors monitor the air quality and guarantee for a hygienically necessary minimal aeration. If it starts to rain, rain sensors will close the systems automatically.



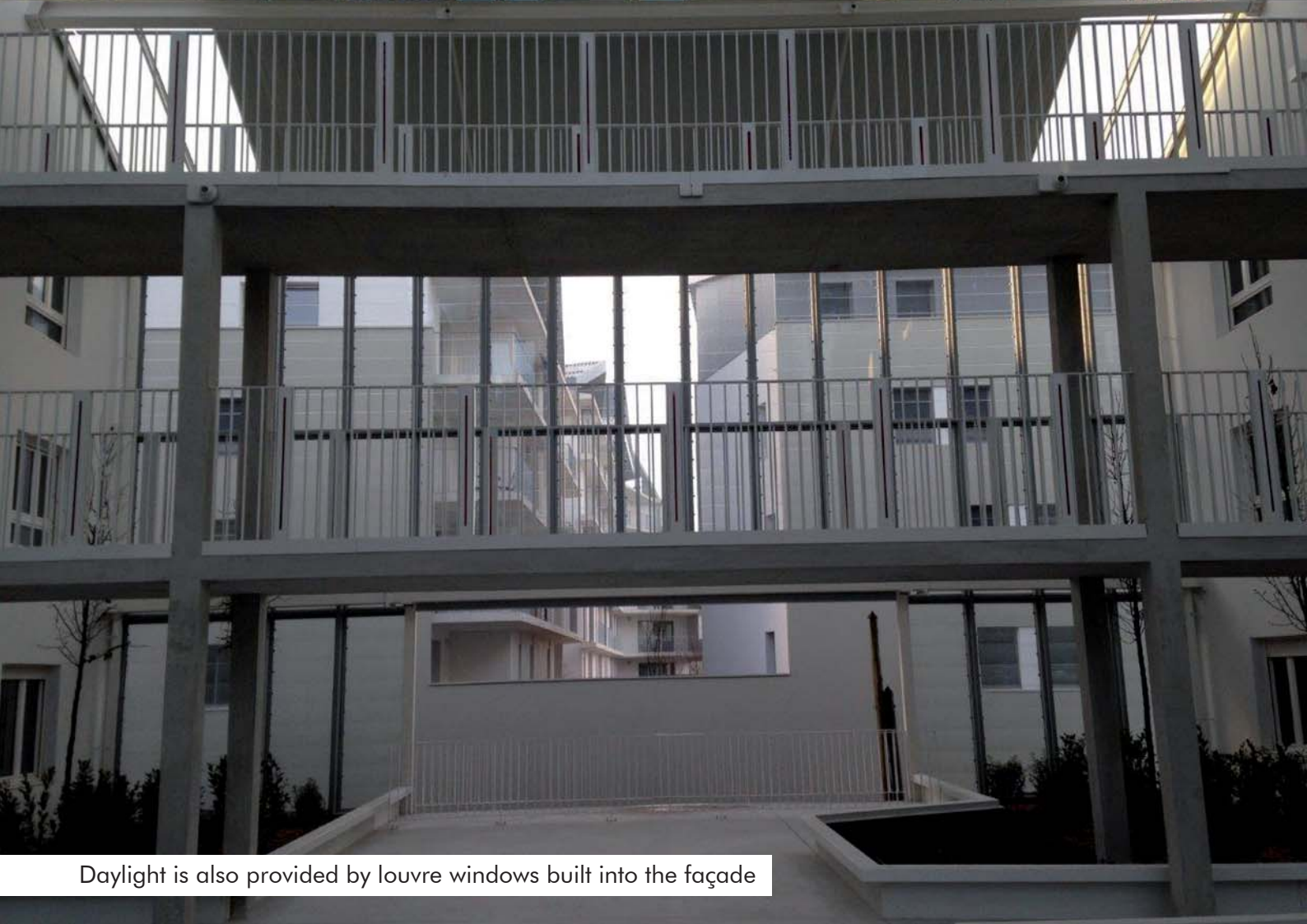
The residential complex Nexity Domofrance with large patio



119 SMOKEJET louvre ventilators were integrated into the shed roof.



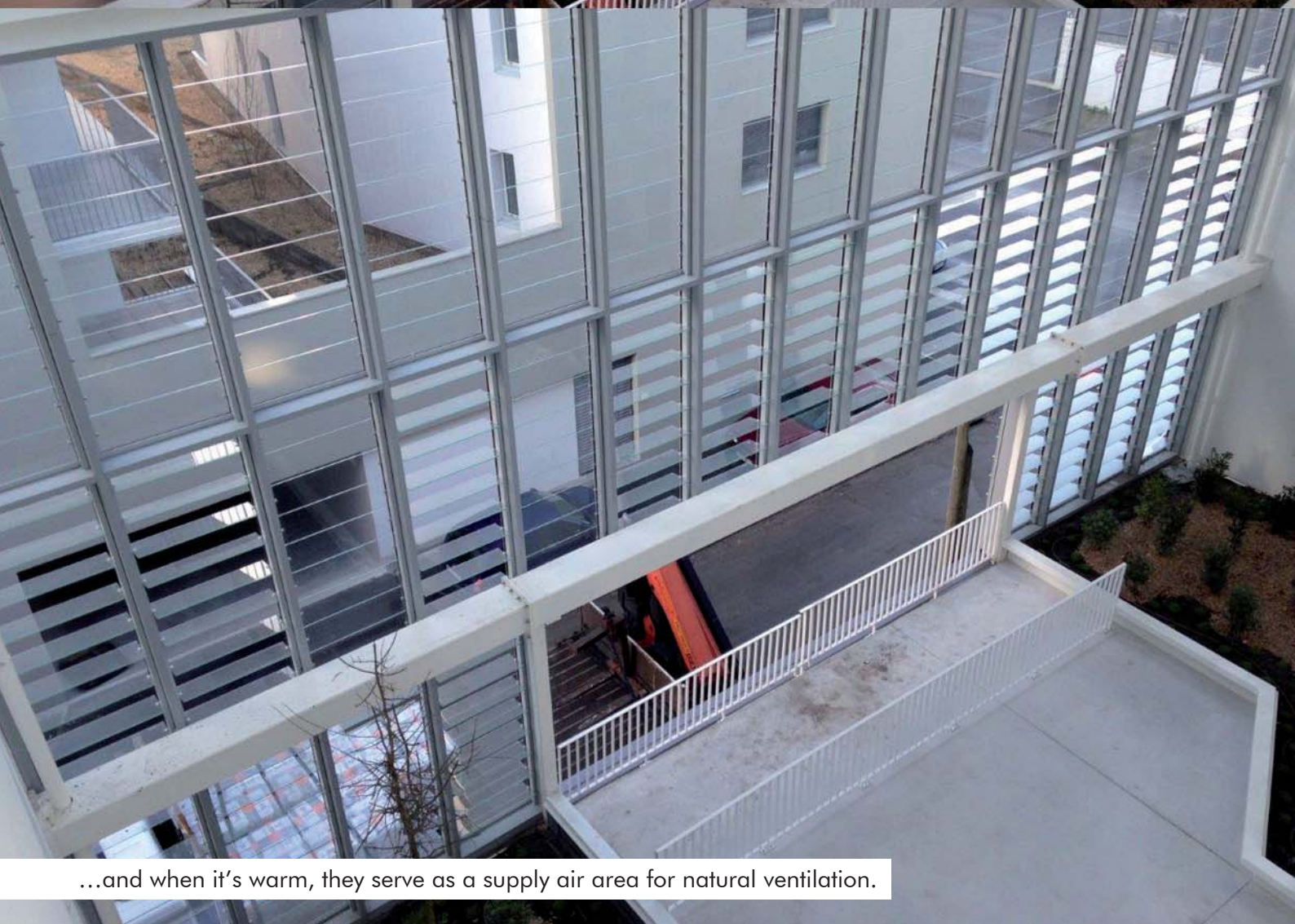
The louvre ventilators supply both fresh air and daylight for the patio.



Daylight is also provided by louvre windows built into the façade



When it's cold, the louvre windows remain shut...



...and when it's warm, they serve as a supply air area for natural ventilation.